

ABSTRACT OF THE DISCLOSURE

Systems and methods for receiving used asphalt materials, heating the materials, dynamically tumbling the materials into a recycled granulized form, and selectively providing the recycled asphalt for use. An asphalt recycling system is used that is configured to receive used asphalt materials, including RAP and asphalt chunks. Inside the system, the asphalt materials are heated in a heating chamber, such as by natural gas, propane, or another heat source. The heating chamber warms the material in the chute, and material in the chute can be exposed to exhaust gas, which preheats the asphalt material. The material is then delivered through the chute and onto a conveyer belt, which drops down into a rotating drum. The drum includes a material classifier ring and a plurality of paddles that are used to tumble the heated asphalt material until it becomes generally granularized. The drum can be manipulated (e.g., tilted, etc.) so that the material can be maintained in the drum until the asphalt material is ready to be reused.

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